

ABSTRACT

The present invention provides a lithium secondary battery improved in safety from overcharge as well as 5 cycle characteristics. A non-aqueous electrolytic solution is used for the lithium secondary battery. In the non-aqueous electrolytic solution, an electrolyte salt is dissolved in a non-aqueous solvent. The non-aqueous solvent comprises two or more cyclic carbonate compounds. 10 The non-aqueous electrolytic solution further contains 1 to 10 wt.% of a cyclohexylbenzene compound having a halogenated benzene ring and 0.1 to 5 wt.% of a fluorobenzene compound.